

Amendments of the Claims:

A detailed listing of all claims in the application is presented below. This listing of claims will replace all prior versions, and listings, of claims in the application. All claims being currently amended are submitted with markings to indicate the changes that have been made relative to immediate prior version of the claims. The changes in any amended claim are being shown by strikethrough (for deleted matter) or underlined (for added matter).

1-21. (Cancelled)

22. (Currently Amended) The method of claim ~~4~~25, wherein the memory medium also stores data from breathing maneuvers carried out.

23. (Currently Amended) The method of claim 25, wherein the step of inputting ~~further~~ comprises the substep of receiving the inhalation parameters through a modem.

24. (Currently Amended) The method of claim 25, wherein the step of inputting ~~further~~ comprises the substep of manually inputting the inhalation parameters.

25. (Currently Amended) A method for administering a controlled inhalation of therapeutic aerosols for a patient during breathing maneuvers comprising the steps of:

inputting into an inhalation device a plurality of inhalation parameters for the inhalation, ~~comprising the substeps of:~~

~~inserting a memory medium into the inhalation device; and~~

~~storing the inhalation parameters on the memory medium before the inhalation;~~

wherein the inhalation parameters are selected from the group consisting of:

a) a plurality of individual patient parameters for the patient;

b) a plurality of aerosol parameters; and

c) a combination of a) and b);

~~controlling an air flow through the inhalation device using the inhalation device
during the controlled inhalation; and~~

individually adjusting the inhalation device to the patient to be treated by adapting a
dosage of at least one aerosol~~adjusting individual aerosol doses administered by
the inhalation device~~ on the basis of the inhalation parameters, comprising the
substeps of:

evaluating the inhalation parameters for the inhalation; and

adjusting a respiratory flow or a tidal volume~~at least one breathing
parameter~~ of the inhalation device based on the aerosol parameters
such that an optimal dose of at least one active ingredient of at least
one aerosol is applied to a desired section of a lung of the patient
during the controlled inhalation; and

controlling an air flow through the inhalation device using the inhalation device
during the controlled inhalation

~~wherein the breathing parameter is selected from the group consisting of:~~

~~a) a respiratory flow;~~

~~b) a tidal volume; and~~

~~c) a combination of a) and b).~~

26. (Cancelled)

27. (Cancelled)

28. (Previously Presented) The method of claim 25, wherein the step of adjusting is
accomplished using at least one valve.

29. (Currently Amended) The method of claim 425, wherein the memory medium is selected from the group consisting of:
- a) a SmartCard;
 - b) a FlashCard; and
 - c) a SmartLabel.
30. (Currently Amended) The method of claim 425, wherein the memory medium is reprogrammable such that the individual patient parameters stored on the memory medium are adapted if a pulmonary function of the patient changes.
- 31-34. (Cancelled)
35. (Currently Amended) The method of claim 425, wherein the memory medium also stores an action blockage pre-setting such that a period of time lapses between successive inhalations to prevent an overdose.
36. (Currently Amended) The method of claim 425, wherein the substep of storing the inhalation parameters on the memory medium occurs prior to the substep of inserting the memory medium into the inhalation device.
37. (Previously Presented) The method of claim 25, wherein controlling an air flow through the inhalation device during the controlled inhalation comprises controlling an air flow velocity.
38. (Previously Presented) The method of claim 25, wherein the air flow through the inhalation device is controlled based on the inhalation parameters.
39. (Previously Presented) The method of claim 25, wherein the inhalation device comprises a regulator for controlling the air flow through the inhalation device.
40. (Previously Presented) The method of claim 39, wherein the inhalation device further comprises:

a housing having an air inlet end for insertion into the mouth of the patient;

a primary air conduit within the housing; and

a secondary air conduit within the housing adjacent the primary air conduit;

wherein the regulator is located in the secondary air conduit.

41. (Previously Presented) The method of claim 40, wherein the inhalation device further comprises a venturi in the primary air conduit, wherein the regulator normally closing the secondary air conduit to air flow is adapted to move between a first position wherein the secondary air conduit is substantially closed and a second position wherein the secondary air conduit is substantially open in response to air pressure differentials created in the venturi of the primary air conduit as the patient inhales through the inlet end of the housing.

42. (Previously Presented) The method of claim 25 further comprising the step of inhaling through the inhalation device by the patient.

43. (Currently Amended) A method for administering a controlled inhalation of therapeutic aerosols for a patient during breathing maneuvers comprising the steps of:

inputting into an inhalation device a plurality of individual patient parameters for the patient for the inhalation; ~~comprising the substeps of:~~

~~inserting a memory medium into the inhalation device; and~~

~~storing the individual patient parameters on the memory medium before the inhalation;~~

~~controlling an air flow through the inhalation device using the inhalation device during the controlled inhalation; and~~

individually adjusting the inhalation device to the patient to be treated by adapting a dosage of at least one aerosol~~adjusting individual aerosol doses administered by~~

~~the inhalation device~~ on the basis of the individual patient parameters,
comprising the substeps of:

evaluating the individual patient parameters for the inhalation; and

adjusting a respiratory flow or a tidal volume ~~at least one breathing~~
~~parameter~~ of the inhalation device based on the individual patient
parameters such that an optimal dose of at least one active ingredient
of at least one aerosol is applied to a desired section of a lung of the
patient during the controlled inhalation; and

controlling an air flow through the inhalation device using the inhalation device
during the controlled inhalation

~~wherein the breathing parameter is selected from the group consisting of:~~

~~a) a respiratory flow;~~

~~b) a tidal volume; and~~

~~c) a combination of a) and b).~~

44. (Currently Amended) A method for administering a controlled inhalation of therapeutic
aerosols for a patient during breathing maneuvers comprising the steps of:

inputting into an inhalation device a plurality of aerosol parameters for the
inhalation, ~~comprising the substeps of:~~

~~inserting a memory medium into the inhalation device; and~~

~~storing the aerosol parameters on the memory medium before the~~
~~inhalation;~~

~~controlling an air flow through the inhalation device using the inhalation device~~
~~during the controlled inhalation; and~~

individually adjusting the inhalation device to the patient to be treated by adapting a dosage of at least one aerosol~~adjusting individual aerosol doses administered by the inhalation device~~ on the basis of the aerosol parameters, comprising the substeps of:

evaluating the aerosol parameters for the inhalation; and

adjusting a respiratory flow or a tidal volume~~at least one breathing~~ parameter of the inhalation device based on the aerosol parameters such that an optimal dose of at least one active ingredient of at least one aerosol is applied to a desired section of a lung of the patient during the controlled inhalation; and

controlling an air flow through the inhalation device using the inhalation device during the controlled inhalation

~~wherein the breathing parameter is selected from the group consisting of:~~

~~a) a respiratory flow;~~

~~b) a tidal volume; and~~

~~c) a combination of a) and b).~~

45. (New) The method of claim 25, wherein the inputting step comprises the substeps of:

inserting a memory medium into the inhalation device; and

storing the inhalation parameters on the memory medium before the inhalation.

46. (New) The method of claim 43, wherein the inputting step comprises the substeps of:

inserting a memory medium into the inhalation device; and

storing the inhalation parameters on the memory medium before the inhalation.

47. (New) The method of claim 44, wherein the inputting step comprises the substeps of:

inserting a memory medium into the inhalation device; and

storing the inhalation parameters on the memory medium before the inhalation.